



Mr Merv Lindsay, National President, Engineers Australia, Mr Joseph Saunders, Traditional Owner and Mrs Laura Bell Traditional Owner after the unveiling of the interpretation panel & marker on 20 October 2011.

CEREMONY REPORT

Budj Bim Aboriginal Hydraulic Works

Tyrendarra, Victoria

Friday 20 October 2011

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1 Introduction:

The ceremony for the marking of the **Budj Bim Aboriginal Hydraulic Works** with an **ENGINEERING HERITAGE NATIONAL LANDMARK** was conducted at 2:00 pm on 20 October 2011 near the car park at the Tyrendarra Indigenous Protected Area, Tyrendarra.

80 people attended the ceremony.

2 Invitations:

There were three forms of invitation:

2.1 Written invitation (see Attachment 1) sent by mail to 171 people listed by Engineering Heritage Victoria.

2.2 Email invitations (see copy of flyer at Attachment 2) sent to the following address lists:

- All Victorian Division Members (approx 20,000 on list)
- Engineering Heritage Victoria list (approx 400 on list)
- Victoria Division Board of Engineering members (approx 40 on list)
- South West Regional Group (number not known - say 200)
- Engineering Heritage Australia Member and Corresponding Members (45 on list)

2.3 Email Invitations sent to 36 people by the Gunditj Mirring Traditional Owners Aboriginal Corporation.

Hence the total number of invitations issues was about 20,685. With 80 present at the ceremony the response rate is approximately 0.39%.

3. Distinguished Guests and Apologies:

The Running Sheet (Attachment 3) shows:

- Those who spoke at the event and timing
- Distinguished Guests who were acknowledged
- Apologies received who were acknowledged

4 Program & Running Sheet:

The ceremony commenced at about 2:10 pm and took about 40 minutes.

The Master of Ceremonies was Damein Bell, CEO of the Aboriginal Community company.

5 Speech Notes:

Three speeches were delivered by Mr Joseph Saunders and Mrs Laura Bell, Traditional Owners; Mr Merv Lindsay, National President, Engineers Australia; Mr Bill Jordan, Engineering Heritage Australia. We do not have speech notes for these speeches.

Federal Minister for Sustainability, Environment, Water, Population and Communities, The Hon Tony Burke MP, sent a message which was read at the ceremony by Owen Peake, Engineering Heritage Victoria. A copy of this note is at Attachment 4.

6 Ceremony Handout:

An 8 page ceremony handout was prepared and handed out to all those who attended the ceremony. A copy is at Attachment 5. The handout was based largely on the material from the Interpretation Panel. 200 copies were printed at a cost of about \$500.

7 Media Release:

A Media Release was issued by Engineers Australia. A copy is at Attachment 6

A Media Release was issued by The Hon Jeanette Powell MP Minister for Local Government and Minister for Aboriginal Affairs in the State of Victoria. A copy is at Attachment 7

8 Media Articles:

8.1 ARTICLE FOR ENGINEERING HERITAGE AUSTRALIA NEWSLETTER

Article written by Owen Peake is at Attachment 8.

8.2 ARTICLE FOR ENGINEERS AUSTRALIA MAGAZINE

Kirril Reztsov will write an article for EA Magazine. Owen Peake provided briefing material both before and after the event.

8.3 ARTICLE FOR EV NEWSLETTER

Article written by Owen Peake is at Attachment 9.

8.5 ARTICLES WRITTEN BY LOCAL NEWSPAPERS

- Portland Observer, 24 October 2011, page 1, "Engineers Australia recognises Budj Bim", by Bill Meldrum.
- Portland Observer, 24 October 2011, page 6, "Engineers recognise significance of Budj Bim" - six photographs of the ceremony with captions.
- Portland Observer, 24 October 2011, page 4, "Budj Bim book takes out award", by Bill Meldrum.

- Hamilton Spectator, 29 October 2011, “Engineers recognise Budj Bim”, by Bill Meldrum.
- Warrnambool Standard, 7 November 2011, page 5, Engineering feat honour - Hydraulic fishing ‘truly remarkable’, by Alexandra Weaver.
- Hobart Mercury 14 November 2011, page 11, “Aborigine farms blow nomad norm”. By Michelle Paine.
- Koori Mail 2 November 2011, page 46, “Engineers praise Budj Bim system”.

9 Letters of Thanks:

Letters of thanks were sent to the following on 7 November 2011:

- Merv Lindsay, National President Engineers Australia
- Damein Bell, CEO Gunditj Mirring Traditional Owners Aboriginal Corporation
- Emily James, Engineers Australia, Victoria Division
- Joseph Saunders, Traditional Owner
- Laura Bell, Traditional Owner

10 Costing

Costs of the project were distributed as per the following table:

No.	Item	Paid by:	Amount
1	Engineering Heritage Australia marker disc	EHA National Budget	\$140
2	Graphic design for interpretation panel	EHA National Budget	Estimated \$2000 Note 1
3	Manufacture of interpretation panel (vitreous enamel)	Engineers Australia National Office	\$2500 Note 1
4	Mounting frame for interpretation panel and markers	Gunditj Mirring Traditional Owners Aboriginal Corporation	Estimated \$900
5	Installation of mounting frame and panel (carried out with in-house resources)	Gunditj Mirring Traditional Owners Aboriginal Corporation	Estimated \$200
6	Production of invitations, handout documents, mailing costs and envelopes	Engineers Australia Victoria Division, EHV Budget	Estimated \$600 Note.1
9	Travel costs: 1 trip Melbourne to Tyrendarra return by Owen Peake	Engineers Australia Victoria Division, EHV Budget	\$600 Note.2
	ESTIMATED TOTAL COST		\$6340

Notes:

1. Estimate as account not yet received.
2. 800 km at EA charge rate of 75 cents/km.

11 Allocation of Tasks

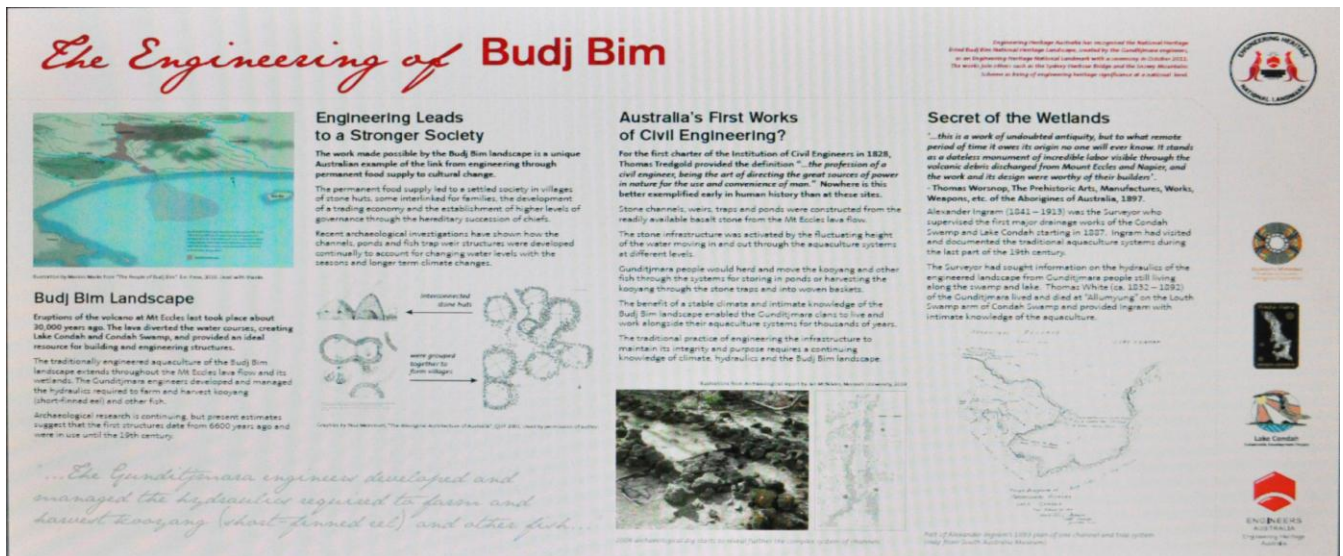
A schedule showing the Allocation of Tasks between the various stakeholders is attached at Attachment 10. This document ensured that all details of organisation were attended to and served as a check list in the run-up to the event.

12 Interpretation Panel:

The interpretation panel was erected on the western bank of Darlot Creek a few metres from the bridge leading from the car park. The panel is 1200 mm wide and 600 mm high and is constructed using Glassmetal Industries vitreous enamel on steel construction. The panel is mounted on a steel fabricated frame fixed into the ground with concrete footings. A standard EHA marker disc 300 mm diameter is affixed to the cross-bar. The frame is finished in black powder coated finish. See image below.



Interpretation panel and marker



13 Photographs:





Merv Lindsay speaking at the ceremony



Bill Jordan speaking at the ceremony



Darlot Creek in the vicinity of the ceremony site



Laura Bell speaking at the ceremony



Joseph Saunders speaking at the ceremony



Part of the crowd at the ceremony

Attachment 1 - Invitation

14th September 2011

<address>



Dear <title> <surname>,

Celebrating Australia's oldest known Engineering Structures

Engineers Australia Victoria Division, in conjunction with Gunditj Mirring Traditional Owners Aboriginal Corporation and the Winda-Mara Aboriginal Corporation, cordially invite you to attend:

The Budj Bim Aboriginal Hydraulic Works Engineering Heritage National Landmark Dedication Ceremony

**Friday 21 October 2011, 2pm
Tyrendarra Indigenous Protected Area, Taylors Road,
Tyrendarra, VIC, 3000**

The National Heritage Recognition Program conducted by Engineers Australia through Engineering Heritage Australia will unveil an interpretation panel and Engineering Heritage National Landmark marker at the Budj Bim site. The ceremony will be hosted by the Gunditj Mirring Traditional Owners Aboriginal Corporation and the Winda-Mara Aboriginal Corporation, and will include VIPs outlining the significance of the Hydraulic Works.

The naturally engineered aquaculture of the Budj Bim, Lake Condah and Condah Swamp, landscape extends throughout the Mt Eccles lava flow and its wetlands. The Gunditjmara engineers developed and managed the hydraulics required to farm and harvest kooyang (short-finned eel) and other fish. Archaeological research is continuing, but present estimates suggest that the first structures date from 6,700 years ago and were in use until the 19th century.

For more information or to register, please visit:
www.engineersaustralia.org.au/budjbim
or contact the Engineers Australia Victoria Division on (03) 9321 1715.

Please see the attached map for directions. I hope to meet you there.

Yours sincerely,

Glenda Graham
Executive Director
Victoria Division

Attachment 2 - Advertising Flyer

ENGINEERING HERITAGE VICTORIA

Budj Bim Aboriginal Hydraulic Works Engineering Heritage National Landmark Dedication Ceremony



**ENGINEERS
AUSTRALIA**

HERITAGE RECOGNITION PROGRAM

**Friday 21 October 2011, 2:00pm
at the Tyrendarra Indigenous Protected Area
Taylors Road, Tyrendarra, Victoria 3285
(between Warrnambool and Portland)**

**Hosted by: Gunditj Mirring Traditional Owners Aboriginal Corporation, Winda-Mara
Aboriginal Corporation and Engineers Australia Victoria Division**

The Story:

Eruptions of the volcano at Mt Eccles commenced about 30,000 years ago and ceased after the last Ice Age some 7,000 years ago. The lava diverted the water courses, creating Lake Condah and Condah Swamp, and provided an ideal resource for building and engineering structures. The traditionally engineered aquaculture of the Budj Bim landscape extends throughout the Mt Eccles lava flow and its wetlands. The Gunditjmara engineers developed and managed the hydraulics required to farm and harvest kooyang (short-finned eel) and other fish. Archaeological research is continuing, but present estimates suggest that the first structures date from 6,600 years ago and were in use until the 19th century.

The Event:

The event is the unveiling of an interpretation panel and Engineering Heritage National Landmark marker as a part of the ongoing national program of heritage recognition by Engineers Australia and Engineering Heritage Australia.

The Gunditj Mirring Traditional Owners Aboriginal Corporation which owns the Traditional Lands in the area will co-host the event. The Dedication Ceremony will be followed by afternoon tea and some site inspections are likely to be available. This is a free event.



For more information or to register, please visit:

www.engineersaustralia.org.au/budjbim

or contact the Engineers Australia Victoria Division on (03) 9329 1715

Contact for queries: Owen Peake owen.peake@bigpond.com

Attachment 3 - Running Sheet

RUNNING SHEET

BUDJ BIM ABORIGINAL HYDRAULIC WORKS - 2pm - 21 October 2011

Unveiling of Engineering Heritage National Landmark

PROGRAM

- Welcome by Master of Ceremonies (MC) including acknowledgment of Distinguished Guests and Apologies. Welcome to Country by Winda Mara Dancers and Elders 5 minutes
 - Mr Joseph Saunders representative of the owners of the land. 5 minutes
 - Mr Merv Lindsay, National President, Engineers Australia 5 minutes
 - Message from the Minister for Sustainability, Environment, Water, Population and Communities, The Hon Tony Burke MP (read by Owen Peake) 5 minutes
 - Mr Bill Jordan, Engineering Heritage Australia, who will talk about the engineering heritage significance of the site 5 minutes
 - MC invites the Mr Merv Lindsay and Mr Joseph Saunders to unveil the marker 4 minutes
 - Closing Remarks (MC) 1 minute
- TOTAL 30 minutes**

LIST OF DISTINGUISHED GUESTS PRESENT

- Mr Merv Lindsay, National President, Engineers Australia.
- Mr Joseph Saunders, Chairman of the Gunditj Mirring Traditional Owners Aboriginal Corporation.
- Mayor Bruce Cross, Glenelg Shire Council.
- Councillor Jim Doukas, Mayor, Moyne Shire Council.
- Councillor Jacinta Ermacora, Mayor, Warrnambool City Council.
- Mr David Madden, CEO, Moyne Shire Council.
- Mr Sid Dean, Group Manager Planning and Development, Shire of Glenelg.
- Mr Damein Bell, CEO, Gunditj Mirring Traditional Owners Aboriginal Corporation.
- Mr John McIntosh, Deputy President, Victoria Division, Engineers Australia.
- Ms Glenda Graham, Executive Director, Victoria Division, Engineers Australia.
- Mr Bill Jordan, Chair, Heritage Recognition Committee, National Board, Engineering Heritage Australia.
- Mr Owen Peake, Chair, National Board, Engineering Heritage Australia.
- Mr Peter Woodhouse, Chair, South West Regional Group, Victoria, Engineers Australia.
- Mr Gordon Spokes, President, Portland Branch, National Trust of Australia (Victoria).
- Mr Marlon Parsons, Forest Planning Officer, Cultural Heritage, DES, SW Region.
- Dr Ian McNiven, Reader, Programme for Australia, Monash University, School of Geography and Environmental, Science, Melbourne.
- Mr Nigel Harper, Regional Development, Victoria.
- Mr Ashley Burton, Representative of John Osborne, Lake Condah Sustainable Development Project.

- Ms Suzie Coates, Indigenous Partnerships Facilitator, Department of Sustainability and Environment, Government of Victoria.

LIST OF APOLOGIES RECEIVED

- The Hon Tony Burke MP, Federal Minister for Sustainability, Environment, Water, Population and Communities.
- Mrs Faith Bandler of Turramurra, NSW who was closely associated with the Lake Condah Community for many years along with her late husband, Hans Bandler. Hans carried out research on the Aboriginal Hydraulic Works in the Lake Condah area.
- Mr Dan Tehan MP, Member for Wannon in the House of Representatives.
- Mr David Koch, MLC, Member for Western Victoria in the Victorian Parliament, Upper House.
- Ms Jalia Pulford, MLC, Member for Western Victoria in the Victorian Parliament, Upper House.
- The Right Honourable Malcolm Fraser AC CH GCL PC, twenty second Prime Minister of Australia.
- Mr Martin Purslow, Chief Executive Officer, National Trust of Australia (Victoria).
- Mr Rupert Grayston, Acting Chief Executive, Engineers Australia.
- Mr John Anderson, Director of Engineering Practice and CPD, Engineers Australia.
- Dr Dietrich Georg, Managing Editor, Engineers Media.
- Mr Peter Burnett, First Assistant Secretary, Department of Sustainability and Environment, Government of Victoria.
- The Honourable Mr David Hawker and Mrs Penny Hawker.
- Councillor Jennifer Lowe, Warrnambool City Council.
- Mr Ken McLeod, Engineer/Builder Member, Heritage Council of Victoria.
- Mr John Osborne, Co-Chair, Lake Condah Sustainable Development Project.
- Mr Mike Gooda, Australian Human Rights Commission.

- Dr Susan Turner, Member of the Geotourism Subcommittee of Geological Society of Victoria
- Mr Ian Voigt, Executive Director, Department of Sustainability and Environment, Victorian Government.

CHANGE CONTROL

Version 1	16 Sept 2011	
Version 2	26 Sept 2011	Update, added Distinguished Guests and Apologies Lists
Version 3	6 Oct 2011	Included Joseph Saunders and Welcome to Country
Version 4	12 Oct 2011	Update. Principal Guest still not resolved.
Version 5	13 Oct 2011	Update of entry for Faith Bandler.
Version 6	15 Oct 2011	Guest Speaker to be Representative of Minister Burke.
Version 6	15 Oct 2011	Update of VIP/Apologies from Emily's list.
Version 7	20 Oct 2011	Minor adjustments. FINAL.
Version 8	5 Nov 2011	Adjustments after the event.

Attachment 4 - Tony Burke Message

Message on behalf of Minister Tony Burke to be read out at Budj Bim ceremony

On behalf of the Gillard Government I would like to extend my sincere congratulations to the Gunditj Mirring Traditional Owners on the inclusion of Budj Bim National Heritage Landscape as an Engineering Heritage National Landmark. I also acknowledge Engineers Australia for their foresight in recognising traditional Aboriginal technology among our nation's engineering feats.

I wish I could be there with you today.

As you all know, the Budj Bim National Heritage Landscape was the first place included in the National Heritage List in July 2004. We recognised the outstanding heritage value of the engineered wetlands in the Lake Condah area and since then have been pleased to support the Gunditj Mirring Traditional Owners Aboriginal Corporation in managing this exceptional place.

Just recently I was pleased to approve funding for two projects totalling \$175,600 for the Budj Bim National Heritage Landscape through the Indigenous Heritage Program. The first project will develop a cultural heritage management plan to help promote traditional aquaculture in the Tyrendarra Indigenous Protected Area.

The second project will develop a methodology for the safe removal of trees and vegetation from the aquaculture system at Lake Condah.

These projects show the dedication of the Gunditj Mirring Traditional Owners in continuing their cultural practices and ensuring the preservation of this significant heritage place for future generations.

I wish you all the best and congratulate you on another significant milestone for Budj Bim National Heritage Landscape.

Ann-Marie Wilcock

Deputy Chief of Staff | Office of the Hon Tony Burke MP

Minister for Sustainability, Environment, Water, Population and Communities

 (02) 6277-7640  (02) 6273-6101

Attachment 5 - Handout Document

ENGINEERS AUSTRALIA
ENGINEERING HERITAGE VICTORIA
HERITAGE RECOGNITION PROGRAM
 and
GUNDITJ MIRRING TRADITIONAL OWNERS ABORIGINOINAL CORPORATION
RNTBC

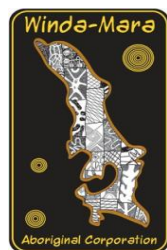


Budj Bim Aboriginal Hydraulic Works

Heritage Recognition Ceremony

Friday 21 October 2011

Program and description of the site



Program

- Welcome by Master of Ceremonies

- Acknowledgment of Distinguished Guests and Apologies
- Welcome to Country by Winda Mara Dancers and Elders
- Mr Joseph Saunders representative of the owners of the land
- Mr Merv Lindsay, National President, Engineers Australia
- Representative of the Minister for Sustainability, Environment, Water, Population and Communities, The Hon Tony Burke MP
- Mr Bill Jordan, Engineering Heritage Australia, who will talk about the engineering heritage significance of the site
- Master of Ceremonies invites the Mr Merv Lindsay and the Minister's Representative to unveil the marker
- Closing Remarks by Master of Ceremonies

The Engineering of Budj Bim

Forming the landscape

Budj Bim is the landscape formed from the basalt flows from the volcano, now known as Mt Eccles, which erupted about 30,000 years ago. The volcanoes in the region of south-western Victoria, erupted over a long period, with the last being that at Mt Gambier about 4500 years ago.



Like many of the other nearby volcanoes, Mt Eccles is not a high conical mountain and it did not erupt many times. Its eruption did, though, divert the courses of creeks in the area, forming lakes and swamps, and left a source of conveniently-sized basalt rocks then used by the Gunditjmarra people for building; the lava eventually

flowed into the Southern Ocean.

The start of aquaculture

Archaeological evidence presently dates the first human built structures to 6600 years ago.

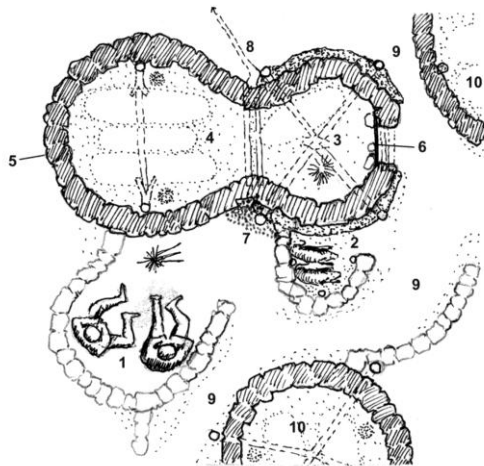
Darlot Creek, which runs into the Fitzroy River, drains from Lake Condah and Condah Swamp. These waterways are on the migratory route of the kooyang, also known as short-finned eels. Their time in the waterways is only short and their migration takes them to and from a spawning area in the Coral Sea near New Caledonia. Other fish, especially the common galaxia, or native whitebait, also use the waterways at different times of the year so that fish were available for two thirds of the time.

Extending the time when eels were available for harvest was the principal objective of the engineering of Budj Bim and this was achieved by building channels (dug into the ground), races (built above ground level) and weirs to control water flows, and holding dams where eels could be kept to be harvested when needed.

Food supply leads to permanent settlement



The Budj Bim engineering led to another step recognized by anthropologists in the progress of human evolution. Permanent settlement evolved, using the basalt stones as the basis of permanent buildings which were grouped into villages. The “beehive”-shaped buildings were noted by Europeans at first contact, but their significance was not recognised and many of the buildings were destroyed in the Eumaralla War.



A hypothetical reconstruction of a Guditjmarara village house with stone walls and timber-framed doors — drawing by Paul Memmott

The extent of settlement along the southern coast of what is now Victoria was made evident to sailors travelling between the new colony at Adelaide and the slightly older colony at Melbourne in the 1840s. It was reported that, as night fell, lights appeared right along the ridge in from the coast in groups identified as looking like villages.



The eels were smoked not just for preservation for Guditjmarara use, but for trading. Smoking trees were used and some still remain.

Harvesting and preservation by smoking continued into the early 20th century.

Early appreciation of the

The special nature of Budj Bim was noted contact in the 1830s, by occasional

engineering

by some Europeans at first perceptive travellers in the

1840s and, in the 1880s Surveyor Alexander Ingram first started to show how the system of channels and ponds was used to direct and store water and fish.

Ingram's work was largely overlooked until the 1970s when Peter Coutts and colleagues from the Victorian Archaeological Survey and the ANU started to investigate the systems for the Victorian Archaeological Survey, resulting in the monograph *Aboriginal Engineers of the Western District, Victoria*.

Degradation and rehabilitation of the works

The establishment of the late 1860s lake and century until 1954 to create



aquaculture declined from the of the Lake Condah Mission in and the works which drained the swamp from the late 19th the last big channel was dug in even more grazing lands.

Starting from Title land reclaiming the weir to

lodgement of the first Native claim in 1996, progress in Budj Bim has been rapid, with reverse the earlier drainage

works being completed in 2010. Lake Condah has finally filled again.

Recognition by Engineers Australia

The Institution of Engineers Australia has been recognising the country's engineering heritage since the 1980s. Generally, the works have been recognised in two categories which are presently called Engineering Heritage National Landmarks and Engineering Heritage Markers.

There is no escaping the difference of opinion of engineers and others as to what constitutes engineering and such discussions have not been avoided in the present case. This discussion has been going on since engineering was first recognised as a learned profession with the formation of the Institution of Civil Engineers in Britain in (1818) The Institution of Civil Engineers was the principal model used when the Institution of Engineers Australia was founded in 1919. In the first charter of the British institution in 1828 the definition was set out as "...the profession of a civil engineer, being the art of directing the great sources of power in Nature for the use and convenience of man."

The Gunditjmara people were following that definition thousands of years before anyone tried to define what they were doing.

Engineers Australia is proud to have been able to recognise the engineering works of Budj Bim and looks forward to more such works being revealed and able to be recognised.

For Engineers Australia, 2011 is the Year of Humanitarian Engineering (YoHE). Our 2011 National President, Merv Lindsay, is personally committed to making the YoHE meaningful and sustaining. We recognise that Indigenous Australians are at a significant disadvantage compared to non-Indigenous Australians and the gap has not decreased over the past decade or more. Australia has a Closing the Gap strategy that aims to

reduce Indigenous disadvantage with respect to life expectancy, child mortality, access to early childhood education, educational achievement and employment outcomes.

A Reconciliation Action Plan (RAP) is Engineers Australia's commitment and response to 'closing the gap'. It is particularly appropriate that Budj Bim is being recognised in 2011.

The Story of Budj Bim

The story of Budj Bim is explored in greater depth in the book **The People of Budj Bim**, by the Gunditjmara people with Gib Wettenhall, available from Gunditj Mirring Traditional Owners Aboriginal Corporation, 21 Scott Street, Heywood 3304.

Contacts

Engineers Australia, Victorian Division
Level 2, 21 Bedford Street
North Melbourne VIC 3051
Phone: 03 9321 1715
Fax: 03 9326 6515

Email: memberservices@engineersaustralia.org.au

Web: www.engineersaustralia.org.au/victoria

Gunditj Mirring Traditional Owners
Aboriginal Corporation RNTBC
4/48 Edgar Street
PO Box 216
Heywood VIC 3304
GUNDITJMARA COUNTRY
Phone: 03 5527 1427

Email: admin@gunditjmirring.com

Web: <http://temp.websitesplus.com.au/gunditjmerring/home.php>

Attachment 6 - Engineers Australia Media Release

Media Release

Friday 21 October 2011

6,600 year-old Aboriginal project acclaimed by engineers

The engineering expertise of the Gunditjmarra people, who developed and managed the hydraulics required to farm and harvest fish in south-western Victoria for 6,600 years, was celebrated at Tyrendarra today as an engineering heritage national landmark by Engineers Australia.

The ceremony, hosted by the Gunditj Mirring Traditional Owners Aboriginal Corporation and the Winda-Mara Aboriginal Corporation, included the unveiling of an interpretative panel and engineering heritage marker for the Budj Bim Aboriginal hydraulic works. The National President of Engineers Australia, Merv Lindsay, said that when reflecting on engineering achievements in Australia it was easy to talk about what has been built over the past couple of hundred years, and what might be needed for the next few generations.

“What is truly remarkable about the Budj Bim engineering works is not only its ingenuity, but also at its core has been the delivery of a sustainable outcome for hundreds of generations.

“Attaining sustainable engineering outcomes by today’s well-resourced engineering profession remains a challenge, and here we can see how it was achieved for thousands of years,” Lindsay said.

Volcanic activity some 30,000 years ago at Mt Eccles diverted water courses that created Lake Condah and Condah Swamp, and provided ideal resources for building and engineering structures.

Channels, ponds and fish trap weir structures were developed continually to account for changing water levels with the seasons and longer term climate changes. The kooyang (short-finned eel) and other species were herded through the systems for storing in ponds or harvesting from woven baskets located in weirs.

The permanent food supply led to a settled society in villages of stone huts, the development of a trading economy and the establishment of higher levels of governance through the hereditary succession of chiefs.

The aquaculture declined from the late 1860s when continuing works were undertaken to drain Lake Condah and swamp for grazing land. However, rehabilitation has been well underway since the lodgement of the first Native Title land claim in 1996, and progress in reclaiming Budj Bim has been rapid, with engineering works, including a weir, to reverse the earlier drainage.

Media Contact: John Bright – 0407 234 490 / jbright@engineersaustralia.org.au

Attachment 7 - Minister Powell Media Release

Friday 21 October 2011

Engineers Australia recognise Budj Bim

Minister for Aboriginal Affairs Jeanette Powell today welcomed Engineers Australia's dedication ceremony recognising the Indigenous hydraulic works within the Budj Bim National Heritage Landscape.

Mrs Powell said the recognition of the Budj Bim National Heritage Landscape as an Engineering Heritage National Landmark illustrates the significance of the site.

"Budj Bim was the site of a pre-European aquaculture system dating back 6,600 years that supported the development of a largely settled society," Mrs Powell said.

"The elaborate system of excavated stone channels constructed for the aquaculture of eels and other fish, demonstrates the ingenuity, forward thinking and sophisticated understanding of local ecosystems of Aboriginal people thousands of years ago.

"By its existence, the Budj Bim National Heritage Landscape challenges common preconceptions of traditional Aboriginal ways and allows us to recognise that, prior to European settlement, Aboriginal people lived by a complex system of aquaculture, resource use, kinship networks and trade.

"I had the pleasure of touring the Budj Bim area and seeing first hand the innovative eel traps and stone settlements that make Budj Bim so unique.

"The Victorian Coalition Government contributed \$20,000 through Regional Development Victoria towards the Budj Bim World Heritage Symposium.

"I applaud Engineers Australia in recognising such an important part of Victoria's Indigenous engineering history," Mrs Powell concluded.

Media contact: Greg Charter 0400 014 059

Attachment 8 - EHA Newsletter Article

EHA NEWSLETTER BUDJ BIM ABORIGINAL HYDRAULIC WORKS HERITAGE RECOGNITION CEREMONY

Recognition for 6,600 year old Aboriginal hydraulic works

The engineering expertise of the Gunditjmarra people, who developed and managed the hydraulics required to farm and harvest fish in south-western Victoria for 6,600 years, was celebrated at Tyrendarra on 21 October 2011 as an Engineering Heritage National Landmark by Engineers Australia.

The ceremony, jointly hosted by Engineers Australia, the Gunditj Mirring Traditional Owners Aboriginal Corporation and the Winda-Mara Aboriginal Corporation, included the unveiling of an interpretative panel and engineering heritage marker for the Budj Bim Aboriginal hydraulic works.

The National President of Engineers Australia, Merv Lindsay, said that when reflecting on engineering achievements in Australia it was easy to talk about what has been built over the past couple of hundred years, and what might be needed for the next few generations.

“What is truly remarkable about the Budj Bim engineering works is not only its ingenuity, but also at its core has been the delivery of a sustainable outcome for hundreds of generations”.

“Attaining sustainable engineering outcomes by today’s well-resourced engineering profession remains a challenge, and here we can see how it was achieved for thousands of years”, Lindsay said.

Volcanic activity some 30,000 years ago at Mt Eccles diverted water courses that created Lake Condah and Condah Swamp, and provided ideal resources for building and engineering structures. Channels, ponds and fish trap weir structures were developed continually to account for changing water levels with the seasons and longer term climate changes. The kooyang (short-finned eel) and other species were herded through the systems for storing in ponds or harvesting from woven baskets located in weirs. The permanent food supply led to a settled society in villages of stone huts, the development of a trading economy and the establishment of higher levels of governance through the hereditary succession of chiefs.

The aquaculture declined from the late 1860s when works were undertaken to drain Lake Condah and swamp to create colonial grazing land. However, rehabilitation has been well underway since the lodgement of the first Native Title land claim in 1996, and progress in reclaiming Budj Bim has been rapid, with engineering works, including a weir, to reverse the earlier drainage.

Photograph Captions

1. Engineers Australia National President Merv Lindsay speaking at the Budj Bim ceremony on 21 October 2011

Photo ID: Merv Lindsay speaking at the Budj Bim ceremony.21 Oct 2011

2. Darlot Creek, site of some of the Aboriginal hydraulic works, near the location of the Budj Bim ceremony.

Photo ID: Darlot Creek near the site of the Budj Bim ceremony.21 Oct 2011

Attachment 9 - EV Magazine Article

Note: This article was combined with article on Yallourn Power Stations for space reasons.

EV MAGAZINE

BUDJ BIM + YALLOURN CEREMONIES

Victorian Heritage Recognition Ceremonies

Engineering Heritage Victoria held two notable heritage recognition ceremonies in country Victoria in October.

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The National President of Engineers Australia, Merv Lindsay, said that when reflecting on engineering achievements in Australia it was easy to talk about what has been built over the past couple of hundred years, and what might be needed for the next few generations.

“What is truly remarkable about the Budj Bim engineering works is not only its ingenuity, but also at its core has been the delivery of a sustainable outcome for hundreds of generations”.

“Attaining sustainable engineering outcomes by today’s well-resourced engineering profession remains a challenge, and here we can see how it was achieved for thousands of years”, Lindsay said.

A heritage recognition ceremony was held at PowerWorks, Morwell on 26 October 2011 to recognise the significance of Yallourn Power Station which operated between 1924 and 1989. The Yallourn Power Station has been demolished but PowerWorks have an extensive display on Yallourn.

The unveiling was carried out by Victoria Division Deputy President Elect Geoff Hayes and PowerWorks Manager Marcus Fraser and the marker recognises Yallourn Power Station as an Engineering Heritage National Landmark.

The Yallourn Power Station was the first major power station based on a coal field in Australia. It established the technology for burning the very wet coal found in the Latrobe Valley. This coal has generated the bulk of Victoria’s electricity since 1924.

Speaking at the unveiling Geoff Hayes reflected not only on the technological and logistical hurdles and achievements, but also on the determination and outstanding leadership and vision of General Sir John Monash who was the first Chairman of the State Electricity Commission of Victoria.

The nomination document for this heritage recognition was prepared by Victoria University final year engineering student Udara Almeida from Sri Lanka. This work was carried out under a joint project to provide vacation work experience for engineering students.

Owen Peake

Photograph Captions

1. Engineers Australia National President Merv Lindsay speaking at the Budj Bim ceremony on 21 October 2011

Photo ID: Merv Lindsay speaking at the Budj Bim ceremony.21 Oct 2011

2. Udara Almeida addressing guests at the ceremony.

Photo ID: Yallourn PS Ceremony.Udara Almeida addressing guests.26 Oct 2011

Attachment 10 - Work Breakdown Structure

BUDJ BIM WORK BREAKDOWN STRUCTURE Activity		Person Responsible	Due Date	Complete
1 Project Management				
1.1	Assign new organising committee			Not Required
1.2	Supporting documents sent to / confluence site created for new organising committee			Not Required
1.2.1	This will include the 'Aim of Event', statistics, the project management plan, previous programs, budgets, sponsorship proposals, insurance details etc			Not Required
1.3	Development of Project Management Plan, an agreement between the organising committee and the Victoria Division in the roles, responsibilities tasks etc			Not Required
1.4	Brief team leaders/ all involved on site and story	Owen Peake	29-Jul	Y
1.5	Liaise with host community	Bill Jordan	on going	
2 Budget				
2.1	Develop draft budget	Emily James	5-Aug	Y
2.1.1	Use VIC DIV template	Emily James	5-Aug	Y
2.1.2	Ensure marketing and stationery, gifts for speakers and other costs are included	Emily James		Not Required
2.1.3	Determine max number of registrations (plus comps)	Bill Jordan		
2.1.4	Determine income allocations			Not Required
2.1.5	Project Owner to approve/amend budget	Bill Jordan		Not Required
3.2	Create budget	Emily James		?
3.2.1	Project Owner to approve/amend budget	Bill Jordan		?
3.5	Management of Budget	Bill Jordan		?
3 Nomination				
3.1	Prepare the nomination			Y
3.2	Approve the nomination	Bill Jordan		Y
4 Interpretation Panel				
4.1	Design interpretation panel	Bill Jordan		Y
4.2	Produce interpretation panel	Bill Jordan		
4.2.1	Arrange production of panel and marker	Bill Jordan		Not Required

4.2.2	Research hazards on site	Kerrup Jmara Elders		
4.2.3	Arrange fabrication of mounting panel and marker	Kerrup Jmara Elders		IN PROGRESS
4.2.4	Send marker to community	Bill Jordan		
5 Speakers / MC				
5.1	Develop an invitation letter	Owen Peake		Y
5.2	Send out invitations by mail	Emily James		IN PROGRESS
5.2	Find speakers and MC	Bill Jordan		URGENT
5.2.1	Research appropriate speakers	Bill Jordan		URGENT
5.2.3	Confirm Principal Guest Speaker (Minister Tony Burke).	Jamie Penrose		URGENT
6 Marketing				
6.1	Information Handout			
6.1.1	Source the text and photos for information handout	Bill Jordan		IN PROGRESS
6.1.2	Design the handout	N.O. designer		
6.1.3	Print handout	Emily James		
6.2	Mailing Lists			
6.2.1	Determine who to invite	Owen Peake		Y
6.2.2	Find contacts and addresses	Owen Peake		Y
6.2.3	Collate mailing lists into excel for mail merging	Emily James		Y
6.3	Flyer /Invitation			
6.3.1	Design the invitation	Owen Peake		Y
6.3.2	Print invitation	Emily James		IN PROGRESS
6.3.2.1	Determine quantity to print	Emily James		Not Required
6.3.3	Mail out invitations	Emily James		IN PROGRESS
6.3.4	Send invitations electronically	Emily James		IN PROGRESS
6.3.4.1	Victorian EA database	Emily James		?
6.4	Pre-Event Promotion			
6.4.1	Print Media			
6.4.1.1	Determine whether to advertise in EV (deadline 8th Aug)	Emily James		Not Required
6.4.1.2	Determine whether to advertise with Engineers Media (EA mag)	Emily James		Not Required
6.4.1.3	Determine whether to advertise in local papers	Bill Jordan		
6.4.2	Online			

6.4.2.1	upload DL banner onto VIC DIV website	Emily James		
6.4.2.2	create events calendar page	Emily James		
6.5	Event Promotion			
6.5.1	Invite local papers	John Bright		
	Prepare a press release and bring copies of this	John Bright		
6.6	Post-Event Promotion			
6.6.1	write an article for Engineers Australia Magazine, EHA, and EV	Owen Peake		
7 Registration				
7.1	Create online registration	Emily James		
7.1.1	Send test to project owner to confirm it is ok to use	Emily James		
7.1.2	Make comments or confirm registration site	Emily James		
7.2	Make online registration live	Emily James		
7.3	Check registrations each week	Emily James		
7.3.1	Double check people are registering properly	Emily James		
7.3.2	Contact anyone who hasn't registered properly	Emily James		
7.3.3	Determine if registrations are high or low and thus determine if heavier marketing is required	Emily James		
7.3.4	Collect apologies	Emily James		
7.4	RSVP date	Emily James		
7.5	Close registration link	Emily James		
7.6	Create reports	Emily James		
7.6.1	Create Attendee Summary	Emily James		
7.6.2	Create dietary requirements	Emily James		
7.7	Send reminder email to registered peoples	Emily James		
8 Event Operations				
8.1	Organise furniture for ceremony			
8.1.1	Tables	Kerrup Jmara Elders		
8.1.2	Chairs	Kerrup Jmara Elders		
8.1.3	Marquee / venue	Kerrup Jmara Elders		
8.1.3.1	Must be in sight of the interpretation panel	Kerrup Jmara Elders		
8.1.4	Lecturn	Kerrup Jmara Elders		

8.1.5	AV equipment	Kerrup Jmara Elders		
8.2	Organise and manage car parking	Kerrup Jmara Elders		
8.3	Engineers Australia items to bring			
8.3.1	Banners	Emily James		
8.3.2	Lecturn slide	Emily James		
8.3.3	Velvet veil	Owen Peake		
8.3.4	Information sheets	Emily James		
8.3.5	Press Release	Emily James		
8.4	Organise photographer or camera	Emily James		Not Required
	<u>Prepare speeches Note: There will be at least 3 speeches - Minister; Owner; National President of EA plus possibly another technical speaker.</u>			
8.4.1	Ensure each speaker has prepared their speech	Bill Jordan		
8.4.2	Prepare a welcome to country.	Bill Jordan		
	8.4.2.1 ENSURE HOST COMMUNITY IS INVOLVED WITH THIS	Bill Jordan		
8.5	Prepare a running order	Emily James/Owen Peake		
8.6	Prepare planning folders	Emily James		
8.6.1	Distribute	Emily James		
8.4.9.1	Include Contact names and numbers	Emily James		
8.4.9.2	Include full event running order	Emily James		
8.4.9.3	Include each activity running order	Emily James		
8.4.9.4	Include speech notes	Emily James		
9 Event Day				
9.1	Overlook Set-up	Emily James		
9.2	Registration	Emily James		Not Required
9.2.1	Use attendee lists to check of registrants	Emily James		Not Required
9.3	Liaise with venues on the day	Emily James		
9.4	Ensure everything is running smoothly	Emily James		

KEY:**YELLOW - COMPLETED****GREEN - IN PROGRESS****RED - URGENT**

OWEN PEAKE
Secretary
Engineering Heritage Victoria

5 November 2011

CHANGE CONTROL
VERSION 1 5 November 2011 Adapted from Janevale Bridge Ceremony Report